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Total Number of Pages in This Submission

Application Number	10/612,239
Filing Date	July 1, 2003
First Named Inventor	KUO, ERIC
Art Unit	3732
Examiner Name	Wilson, John J.
Total Number of Pages in This Submission	018563-006700US

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard PTO/SB/08A & PTO/SB/08B 110 Reference Copies IDS Pursuant to MPEP §2001.06 Exhibit Binder (A-J)
		Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	James M. Heslin		
Date	April 21, 2005	Reg. No.	29,541

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Tiffany Wu	Date	April 21, 2005



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P.O. Box 1450
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On 5/22/05

TOWNSEND and TOWNSEND and CREW LLP

By: 
Tiffany Wu

PATENT
Attorney Docket No.: 018563-006700US
Client Reference No.: AT-00122

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ERIC KUO

Application No.: 10/612,239

Filed: July 1, 2003

For: DENTAL APPLIANCE
SEQUENCE ORDERING SYSTEM
AND METHOD

Customer No.: 46718

Confirmation No.: 3324

Examiner: WILSON, JOHN J

Technology Center/Art Unit: 3732

**INFORMATION DISCLOSURE
STATEMENT PURSUANT
TO MPEP §2001.06(c)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants wish to make the following documents of record in the above-referenced patent application. A copy of each of these documents accompanies this Statement as an Exhibit.

1. A Declaration of Dr. Richard Ridgley concerning his uncorroborated use of retainers for moving teeth. Dr. Ridgley has given testimony under seal in ORMCO CORPORATION v. ALIGN TECHNOLOGY, INC., United States District Court, Central District of California, Southern Division, Case No. SACV.

Align Technology is the assignee of the above-referenced patent application.

(Exhibit A)

2. A transcript of the deposition of Lloyd Truax, D.D.S., in the Ormco v. Align Technology litigation, concerning his work in using retainers for moving teeth.

(Exhibit B)

3. A transcript of the deposition of Kevin Truax in the Ormco v. Align Technology litigation concerning work he did with Lloyd Truax. **(Exhibit C)**

4. Documents produced in the Ormco v. Align Technology litigation by Lloyd and Kevin Truax concerning Lloyd Truax's work in using retainers for moving teeth.

(Exhibit D)

5. A transcript of the deposition of Michael David Rains, D.D.S., in the Ormco v. Align Technology litigation concerning his work in using retainers for moving teeth. **(Exhibit E)**

6. A transcript of the deposition of Guadalupe Nieto in the Ormco v. Align Technology litigation concerning work she did with Michael David Rains.

(Exhibit F)

7. Documents produced in the Ormco v. Align Technology litigation by Michael David Rains concerning his work in using retainers for moving teeth.

(Exhibit G)

8. An Order from the Ormco v. Align Technology litigation finding that claims 1-3 and 11-13 of U.S. Patent 6,398,548 and claims 1-3 and 7-8 of U.S. Patent No. 6,554,611, are invalid. **(Exhibit H)**

9. U.S. 6,398,548 **(Exhibit I)**

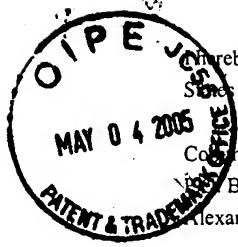
10. U.S. 6,554,611 **(Exhibit J)**

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,

James M. Heslin
Reg. No. 29,541

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 650-326-2400
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Attachments: *Exhibits A-J*
JMH:jke
60473320 v1



Subscribed and sworn to before me this 4th day of May, 2005, and I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents
Box 1450

Alexandria, VA 22313-1450

On 4/22/05

TOWNSEND and TOWNSEND and CREW LLP

By: Tiffany Wu

PATENT
Attorney Docket No.: 018563-006700US
Client Reference No.: AT-00122

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ERIC KUO

Application No.: 10/612,239

Filed: July 1, 2003

For: DENTAL APPLIANCE
SEQUENCE ORDERING SYSTEM
AND METHOD

Customer No.: 46718

Examiner: Wilson, John

Art Unit: 3732

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

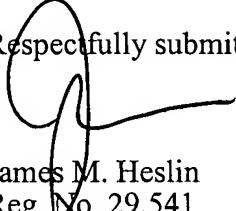
Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references [excluding cited U.S. Patents, U.S. Patent Application publications, and appropriate IFW-stored, pending U.S. Patent Applications and portions thereof, per 1287 OG 163] are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,


James M. Heslin
Reg. No. 29,541

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60473211 v1



INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	1	of	10	Application Number	10/612,239
				Filing Date	July 1, 2003
				First Named Inventor	KUO, ERIC
				Art Unit	3732
				Examiner Name	Wilson, John
				Attorney Docket Number	018563-006700US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2,467,432	04-19-1949	Kesling	
	2	3,660,900	05-09-1972	Andrews	
	3	3,860,803	01-14-1975	Levine	
	4	3,916,526	11-04-1975	Schudy	
	5	3,950,851	04-20-1976	Bergersen	
	6	4,014,096	03-29-1977	Dellinger	
	7	4,195,046	03-25-1980	Kesling	
	8	4,324,546	04-13-1982	Heitlinger et al.	
	9	4,348,178	09-07-1982	Kurz	
	10	4,478,580	10-23-1984	Barrett	
	11	4,504,225	03-12-1985	Yoshii	
	12	4,505,673	03-19-1985	Yoshii	
	13	4,575,805	03-11-1986	Moermann, et al.	
	14	4,611,288	09-09-1986	Duret et al.	
	15	4,656,860	04-14-1987	Orthuber et al.	
	16	4,663,720	05-05-1987	Duret et al.	
	17	4,742,464	05-03-1988	Duret et al.	
	18	4,763,791	08-16-1988	Halverson et al.	
	19	4,793,803	12-27-1988	Martz	
	20	4,837,732	06-06-1989	Brandestini et al.	
	21	4,850,864	07-25-1989	Diamond	
	22	4,936,862	06-26-1990	Walker et al.	
	23	4,937,928	07-03-1990	Van Der Zel	
	24	4,964,770	10-23-1990	Steinbichler et al.	
	25	4,975,052	12-04-1990	Spencer et al.	
	26	5,011,405	04-30-1991	Lemchen	
	27	5,017,133	05-21-1991	Miura	
	28	5,027,281	06-25-1991	Rekow et al.	
	29	5,100,316	03-31-1992	Wildman	
	30	5,121,333	06-09-1992	Riley et al.	
	31	5,128,870	07-07-1992	Erdman et al.	
	32	5,131,843	07-21-1992	Hilgers et al.	
	33	5,131,844	07-21-1992	Marinaccio et al.	
	34	5,139,419	08-18-1992	Andreiko et al.	
	35	5,184,306	02-02-1993	Erdman et al.	
	36	5,257,203	10-26-1993	Riley et al.	
	37	5,273,429	12-28-1993	Rekow et al.	
	38	5,278,756	01-11-1994	Lemchen et al.	
	39	5,338,198	08-16-1994	Wu et al.	
	40	5,340,309	08-23-1994	Robertson	
	41	5,342,202	08-23-1994	Deshayes	

Examiner Signature	Date Considered
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(use as many sheets as necessary)					
Sheet	2	of			10
			Application Number	10/612,239	
			Filing Date	July 1, 2003	
			First Named Inventor	KUO, ERIC	
			Art Unit	3732	
			Examiner Name	Wilson, John	
			Attorney Docket Number	018563-006700US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	42	5,368,478	11-29-1994	Andreiko et al.	
	43	5,382,164	01-17-1995	Stern	
	44	5,395,238	03-07-1995	Andreiko et al.	
	45	5,431,562	11-11-1995	Andreiko et al.	
	46	5,440,496	08-08-1995	Andersson et al.	
	47	5,447,432	09-05-1995	Andersson et al.	
	48	5,452,219	09-19-1995	Dehoff et al.	
	49	5,454,717	10-03-1995	Andreiko et al.	
	50	5,456,600	10-10-1995	Andreiko et al.	
	51	5,474,448	12-12-1995	Andreiko et al.	
	52	5,518,397	05-21-1996	Andreiko et al.	
	53	5,533,895	07-09-1996	Andreiko et al.	
	54	5,542,842	08-06-1996	Andreiko et al.	
	55	5,549,476	08-27-1996	Stern	
	56	5,587,912	12-24-1996	Andersson et al.	
	57	5,605,459	02-25-1997	Kuroda et al.	
	58	5,607,305	03-04-1997	Andersson et al.	
	59	5,645,421	07-08-1997	Slootsky	
	60	5,655,653	08-12-1997	Chester	
	61	5,683,243	11-04-1997	Andreiko et al.	
	62	5,733,126	03-31-1998	Andersson et al.	
	63	5,740,267	04-14-1998	Echerer et al.	
	64	5,975,893	11-02-1999	Chishti et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
	65	EP	0091876 A1	10-19-1983	Duret	<input checked="" type="checkbox"/>
	66	EP	0299490 A2	01-18-1989	Steinbichler et al.	<input checked="" type="checkbox"/>
	67	EP	0376873 A2	07-04-1990	Shafir	<input type="checkbox"/>
	68	EP	0490848 A2	06-17-1992	Nobelpharma AB.	<input type="checkbox"/>
	69	EP	0541500 A1	06-12-1998	Nobelpharma AB	<input type="checkbox"/>
	70	EP	0731673 B1	09-18-1998	Andersson et al.	<input type="checkbox"/>
	71	EP	0774933 B1	05-28-1997	Oden et al.	<input type="checkbox"/>
	72	FR	2652256 A1	03-29-1991	Jourda	<input checked="" type="checkbox"/>
	73	FR	2369828 A1	06-02-1978	Suyehiro	<input checked="" type="checkbox"/>
	74	WO	90/08512 A1	08-09-1990	Dolphin Imaging Systems	<input type="checkbox"/>
	75	WO	91/04713 A1	04-18-1991	Jourda et al.	<input type="checkbox"/>

Examiner Signature	Date Considered
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Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	10/612,239	
(use as many sheets as necessary)			Filing Date	July 1, 2003	
			First Named Inventor	KUO, ERIC	
			Art Unit	3732	
			Examiner Name	Wilson, John	
Sheet	3	of	10	Attorney Docket Number	018563-006700US

FOREIGN PATENT DOCUMENTS							
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			Publication Date MM-DD-YYYY
	76	WO	94/10935	A1	05-26-1994	Ormco Corporation	<input type="checkbox"/>
	77	WO	98/44865	A1	10-15-1998	Nobel Biocare	<input type="checkbox"/>
	78	WO	98/58596	A1	12-30-1998	Align Technology	<input type="checkbox"/>

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/612,239
(use as many sheets as necessary)				Filing Date	July 1, 2003
Sheet	4	of	10	First Named Inventor	KUO, ERIC
				Art Unit	3732
				Examiner Name	Wilson, John
				Attorney Docket Number	018563-006700US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	79	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," <i>JCO</i> (July 1990), pp. 402-407.	
	80	ALTSCHULER et al, "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 182 (1979), p. 187-191.	
	81	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," <i>IADR Abstracts, Program and Abstracts of Papers, 57th General Session, IADR Annual Session, March 29, 1979 - April 1, 1979, New Orleans Marriot, Journal of Dental Research</i> , Vol. 58, January 1979, Special Issue A, p. 221.	
	82	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
	83	ALTSCHULER, "3D Mapping of Maxillo-Facial Prostheses," <i>AADR Abstract #607, 1980</i> , 1 page total..	
	84	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
	85	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontologica Scandinavia</i> , vol. 47 (1989), pp. 279-286.	
	86	BAUMRIND et al., "A Stereophotogrammetric System for the Detection of Prostheses Loosening in Total Hip Arthroplasty", <i>NATO Symposium on Applications of Human Biostereometrics, July 9-13, 1978</i> , SPIE Vol. 166, pp. 112-123.	
	87	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, <i>California Dental Association</i> , Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.	
	88	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. pp.142-166.	
	89	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	
	90	BEGOLE et al., "A Computer System for the Analysis of Dental Casts," <i>The Angle Orthodontist</i> , Vol. 51 No. 3 (July 1981), pp. 253-259.	
	91	BERNARD et al., "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report", <i>Abstracts of Papers, Journal of Dental Research</i> ; Vol. 67, Special Issue March 9-13, 1988, p.169.	
	92	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.	

Examiner Signature		Date Considered	
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Sheet	5	of	10		
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	93	BIGGERSTAFF et al., "Computerized Analysis of Occlusion In The Postcanine Dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.		
	94	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.		
	95	BOYD et al., "Three Dimensional Diagnosis and Orthodontic Treatment of Complex Malocclusions Wlith the Invisalign Appliance", <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), p. 274-293.		
	96	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>Journal of Dental Research</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, p. 208		
	97	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, <i>J Dent Res.</i> , Vol. 65, No. 3, March 1986, pp. 428-431.		
	98	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Parts1 and 2)," <i>Journal of Clinical Orthodontics</i> , (Part 1) Vol. 8, No. 7, July 1979; (Part 2) Vol. 8, No. 8 pp. 539-551, Aug. 1979.		
	99	BURSTONE et al., "Precision Adjustment of the Transpalatal Lingual Arch: Computer Arch Form Predetermination," <i>Am. Journal of Orthodontics</i> , Vol. 79, No. 2 (Feb. 1981), pp. 115-133.		
	100	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.		
	101	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.		
	102	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operatory, <i>Canadian Dental Journal</i> , vol. 54(9), (1988), pp. 661-666.		
	103	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.		
	104	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.		
	105	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.		
	106	CUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.		

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				First Named Inventor	KUO, ERIC
				Art Unit	3732
				Examiner Name	Wilson, John
Sheet	6	of	10	Attorney Docket Number	018563-006700US

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